

Fig.1

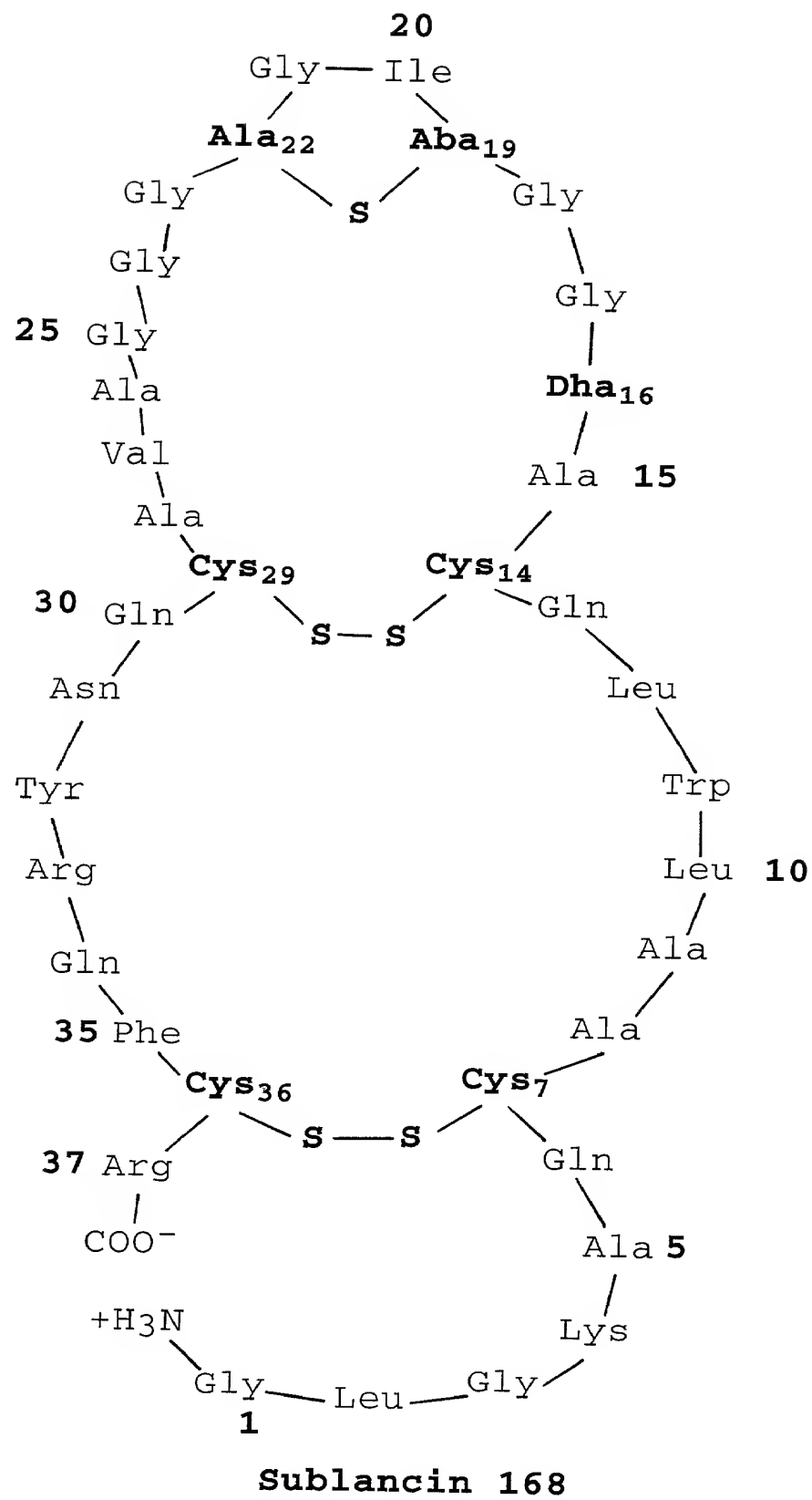
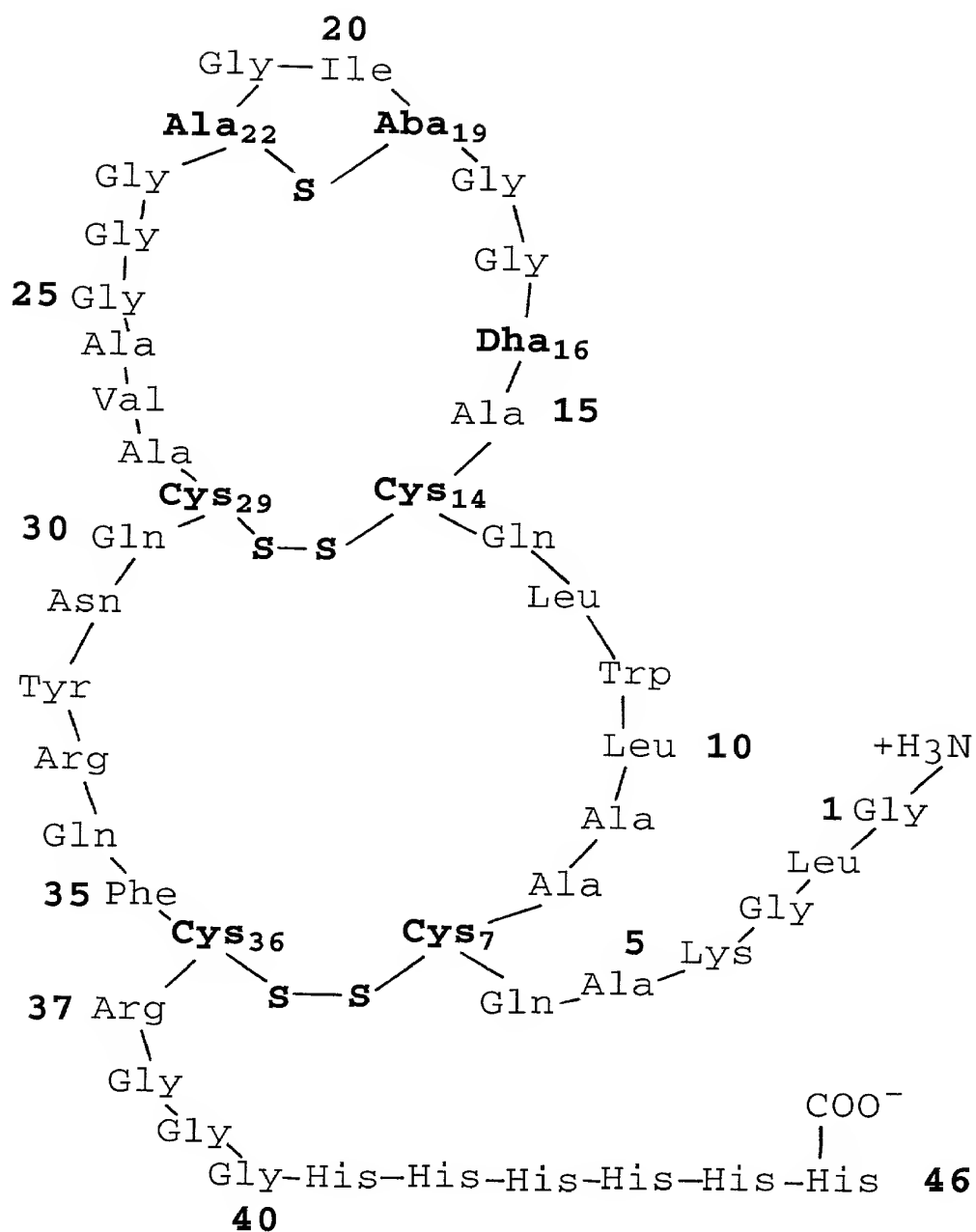


Fig.2



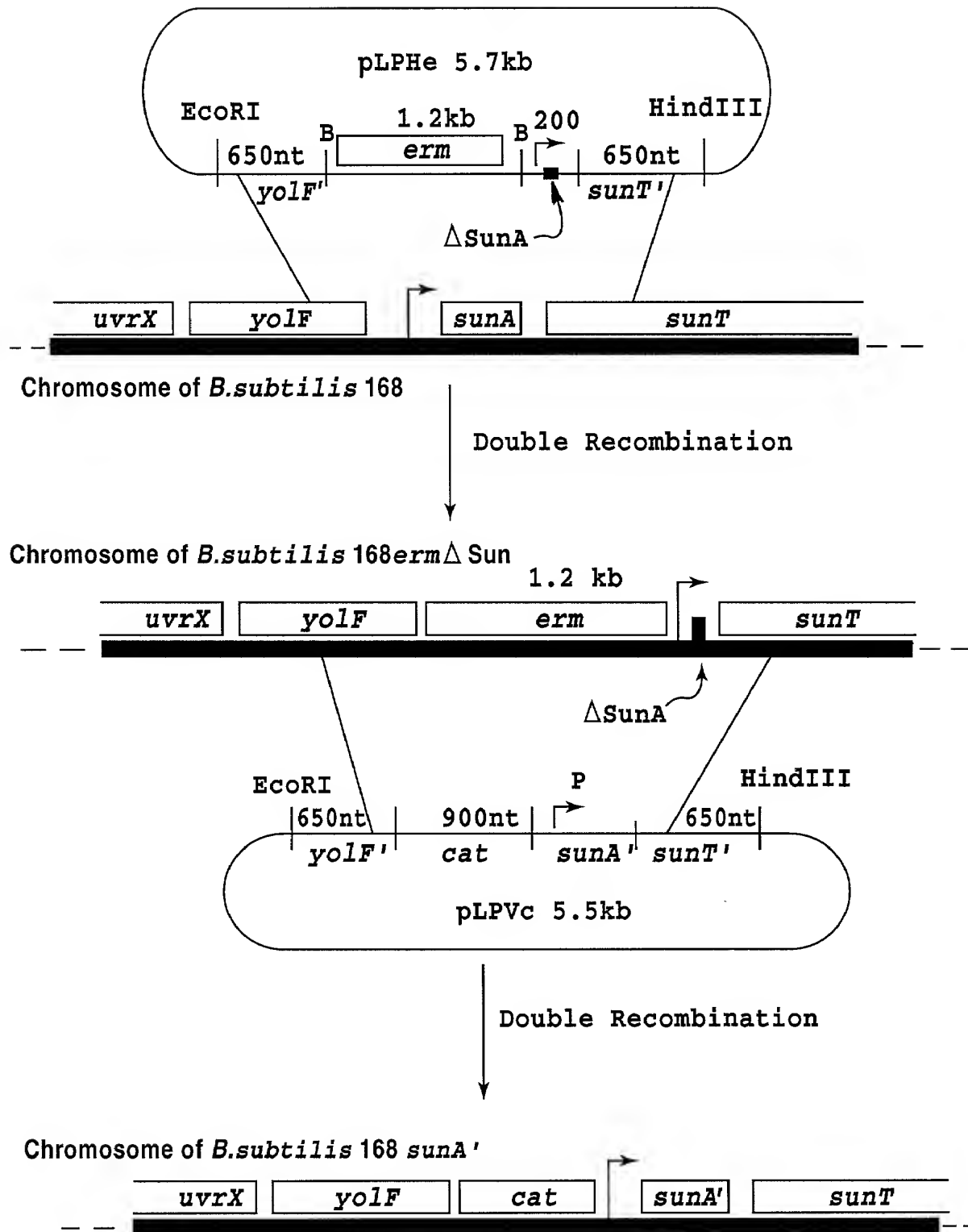
Sublancin-His tag

Fig.3

EcORI

ptZ sequence <-----GAATTCGGCTCTAAAGCGAT
TCTGAGAGCAGTTTCTTATACACAGCAGGAACCTGCACCTTCAACGAGCTGGATTAAACAGTGGGCATAAG
AGTTAAGATAAAATTAAACTTATATACACATCGCTTAAAGTTTGTGTTTAAACCTTAAACCAT
GGTAAAAATTATATAAAACATAAGAAAGAGTGATTATATGGAATATGTAGTTATGATAATCATTTTATTA
GCACTTTTCTTTTACTGTTTTCCTAAATACACGTTATAGTTTGTATGAAAAATGCTTAGTCTTAA
AATTGGTTTATCTAAACACAGAAATTCCAATTAATCAATAGTTAGTATTAAGAGTCAGACAAAGTATGG
AGTTGCAGATAATATCGATTATAAAATGTTATGCCATATGCTCAACCAGATAGAAATTGTTATTGAAACT
ACAAATAAGCGTTTCTAGTTTTTTTAAATGGAGCTCAACAAATTTATTCAAAAGTATAAAGGGTTAGTG
TTTGAAACATAAAAGTACCTTCTTACAATAGAGGTACTTTTGTATCTATATAATTATTAATAATTTAC
CTAAATTTTATCATTTAATTCAAAATAAATCCATAATAGTCAATTTTATTTAGTGTATTACAACCAA
Bam HI (~900 bp) Bam HI
TTC GGATCC <----cat-----> GGATTCGTGTATTACAACCAATTC TGTTTATTGATAGGTAATAAA
GTTTTTTTCTATGATTATGAACAAAGTTTCCTTATAAATTTTCAAA
AAAAATAAAAAATATGGTTGAATTTAGATTTTATCTTCCTTATATAATAAAAAATGTAATCCGGATTGCAA
| **Sublancin leader** -----> **Xho I**
ACAAATGGGGAGGTTTACAA **ATGGAAAAGCTATTTAAAGAAGTTAAACTCGAGGAACTCGAAAAACCAA**
| **Sun A** ----->
AAGGTAGT GGATTAGGAAAAGCTCAGTGTGCTGCCGTTGTGGCTACAAATGTGCTAGTGGCGGTACAATTGG
TTGTGGTGGCGGAGCTGTTGCTTGTCAAACATATCGTCAATTCCTGCAGA Pst I | TAAACATTTGTAGAGGGAAT
ATTTTAAATATCCCTCATATTTAAAGCGGGGATTGAAATTGAATAAGAAAAAATAATGTTCATACTA
AACAGTTTAAATAGTCATGATTGTGGACTAGCTTGTATCTCGTCAATTTTAAAGTTTCATAACCTTAACTA
TGGAATTGATTCTTACTAGACCTAAATTGGGGATAAGGAAGCTATAGTTTAAGAGACTTAATTGTTATT
TTTAAGAAGATGGGATAAAACCTAGGCCACTTGAAATTGCAAGAAAAATAAGACATTCGAAGCCCTAAAAAC
AAATAAAGCTCCCTTGATAGCTTTGTAGAAGGGAGGAATATGGACATTACATAACAAATATACGAAAT
TAGAAATAACTATTACTTGTAGTGATCCTGATAAAGACAAAAATACTAAAAATAAAAAAGAGGATTTT
GAAAGTAAATTCACAAACTTTATATATAGAAATTGACAAAGAGTCAA TTCTGAAAAAGAAAAAGATCAAA
AAAAACATTCCTACTTTTAAAGGACATACCTTTTAGAAATAAAATTGATCGTTTTTGTGATTTTATTGAC
TTCCCTGTTCGTTGTGGGCTTGTGTAAGCTT----->ptZ sequence
HindIII

Fig.4



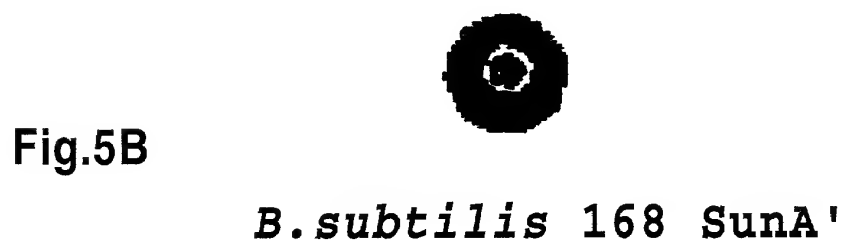
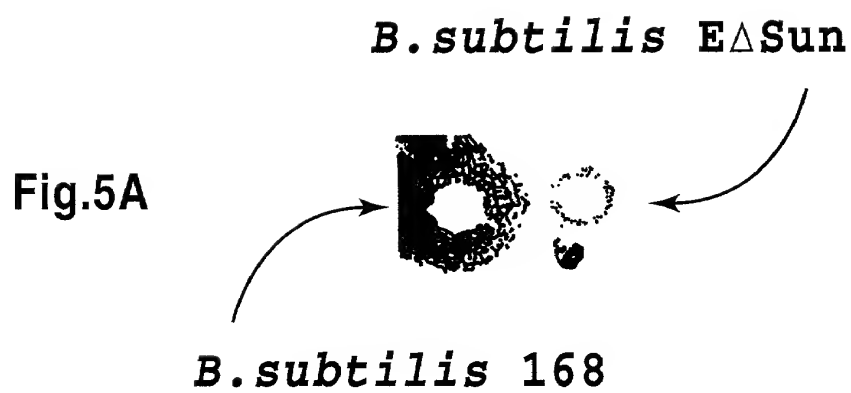


Fig.6

pLPcat Sublancin leader →
TTGCAAACAAATGGGGAGGTTTTACAA ATGGAAAAGCTATTTAAAGAAG
MetGluLysleuPheLysGluV

XhoI sublancin prep-
TTAAACTCGAGGAACTCGAAAACCAAAAAGGTAGT GGATTAGGAAAAGC
AlLysLeuGluGluLeuGluAsnGluLysGlySer GlyLeuGlyLysAl

tide →
TCAGTGTGCTGCGTTGTGGCTACAATGTGCTAGTGGCGGTACAATTGGTT
aGlnCysAlaAlaLeuTrpLeuGlnCysAlaSerGlyGlyThrIleGlyC

KasI
GTGGTGGCGGCGCCGTTGCTTGTCAAACTATCGTCAATTCTGTAGAGGT
ysGlyGlyGlyAlaValAlaCysGlnAsnTyrArgGlnPheCysArgGly

His Tag → Stop PstI
GGTGGTCATCATCATCATCATCATTAGAGTCCTGCAGATAAAACA
GlyGlyHisHisHisHisHisHisHis * pLPcat →

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